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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-12. (Canceled)
13. (Previously Presented) A method of receiving a wideband pilot in a wireless multi-carrier communication system, comprising:
 - obtaining a sequence of received chips that includes a time division multiplexed (TDM) sequence of received pilot and data chips;
 - demultiplexing the sequence of received chips to obtain a sequence of received pilot chips for the wideband pilot and a sequence of received data chips;
 - processing the sequence of received pilot chips with a pseudo-random number (PN) code to obtain a sequence of chip-spaced gain values based upon a plurality of channel gain estimates for a plurality of propagation paths for the wideband pilot and to obtain the plurality of channel response estimates for the plurality of subbands based upon transformations of the sequence of chip-spaced gain values; and
 - processing the sequence of received data chips in accordance with a multi-carrier demodulation scheme and with the plurality of channel response estimates to obtain recovered data symbols.
14. (Original) The method of claim 13, wherein the wireless multi-carrier communication system is an orthogonal frequency division multiple access (OFDMA) communication system, and wherein the multi-carrier demodulation scheme is for orthogonal frequency division multiplexing (OFDM).
15. (Cancelled)

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16. (Previously Presented) The method of claim 13, wherein the plurality of channel gain estimates are obtained with a rake receiver having a plurality of finger processors, wherein each finger processor is operative to process a different one of the plurality of propagation paths to provide a channel gain estimate for the propagation path.

17. (Original) The method of claim 13, wherein the system includes a plurality of subbands, and wherein the recovered data symbols are obtained from different ones of the plurality of subbands in different time intervals as determined by a frequency hopping (FH) sequence.

18-28. (Cancelled)

29. (Previously Presented) A method of receiving a wideband pilot in a wireless multi-carrier communication system, comprising:
 obtaining a sequence of received chips that includes a sequence of combined pilot and data chips transmitted by a transmitting entity, wherein the sequence of combined pilot and data chips is obtained by summing a sequence of pilot chips for the wideband pilot with a sequence of data chips at the transmitting entity;
 processing the sequence of received chips with a pseudo-random number (PN) code to obtain a sequence of chip-spaced gain values based upon a plurality of channel gain estimates for a plurality of propagation paths for the wideband pilot and to obtain the plurality of channel response estimates for the plurality of subbands based upon transformations of the sequence of chip-spaced gain values; and
 processing the sequence of received chips in accordance with a multi-carrier demodulation scheme and with the plurality of channel response estimates to obtain recovered data symbols for the transmitting entity.

30. (Cancelled)

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31. (Previously Presented) The method of claim 29, wherein the plurality of channel gain estimates are obtained with a rake receiver having a plurality of finger processors, wherein each finger processor is operative to process a different one of the plurality of propagation paths to provide a channel gain estimate for the propagation path.
32. (Original) The method of claim 29, further comprising:
estimating interference due to the wideband pilot; and
canceling the estimated interference from the sequence of received chips to obtain a sequence of received data chips, and wherein the sequence of received data chips is processed to obtain the recovered data symbols.
33. (Original) The method of claim 29, wherein the wireless multi-carrier communication system is an orthogonal frequency division multiple access (OFDMA) communication system, and wherein the multi-carrier demodulation scheme is for orthogonal frequency division multiplexing (OFDM).
34. (Previously Presented) An apparatus in a wireless multi-carrier communication system, comprising:
means for obtaining a sequence of received chips that includes a sequence of combined pilot and data chips transmitted by a transmitting entity, wherein the sequence of combined pilot and data chips is obtained by summing a sequence of pilot chips for a wideband pilot with a sequence of data chips at the transmitting entity;
means for processing the sequence of received chips with a pseudo-random number (PN) code to obtain a sequence of chip-spaced gain values based upon a plurality of channel gain estimates for a plurality of propagation paths for the wideband pilot and to obtain the plurality of channel response estimates for the plurality of subbands based upon transformations of the sequence of chip-spaced gain values; and
means for processing the sequence of received chips in accordance with a multi-carrier demodulation scheme and with the plurality of channel response estimates to obtain recovered data symbols for the transmitting entity.

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35. (Original) An apparatus in a wireless multi-carrier communication system, comprising:

a rake receiver operative to process a sequence of received chips with a pseudo-random number (PN) code to obtain a plurality of channel gain estimates for a plurality of propagation paths for a transmitting entity, wherein the sequence of received chips includes a sequence of combined pilot and data chips transmitted by the transmitting entity and obtained by summing a sequence of pilot chips for a wideband pilot with a sequence of data chips at the transmitting entity;

a processor operative to process the plurality of channel gain estimates to obtain a plurality of channel response estimates for a plurality of subbands; and

a demodulator operative to process the sequence of received chips in accordance with a multi-carrier demodulation scheme and with the plurality of channel response estimates to obtain recovered data symbols for the transmitting entity.

36-50. (Canceled)

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